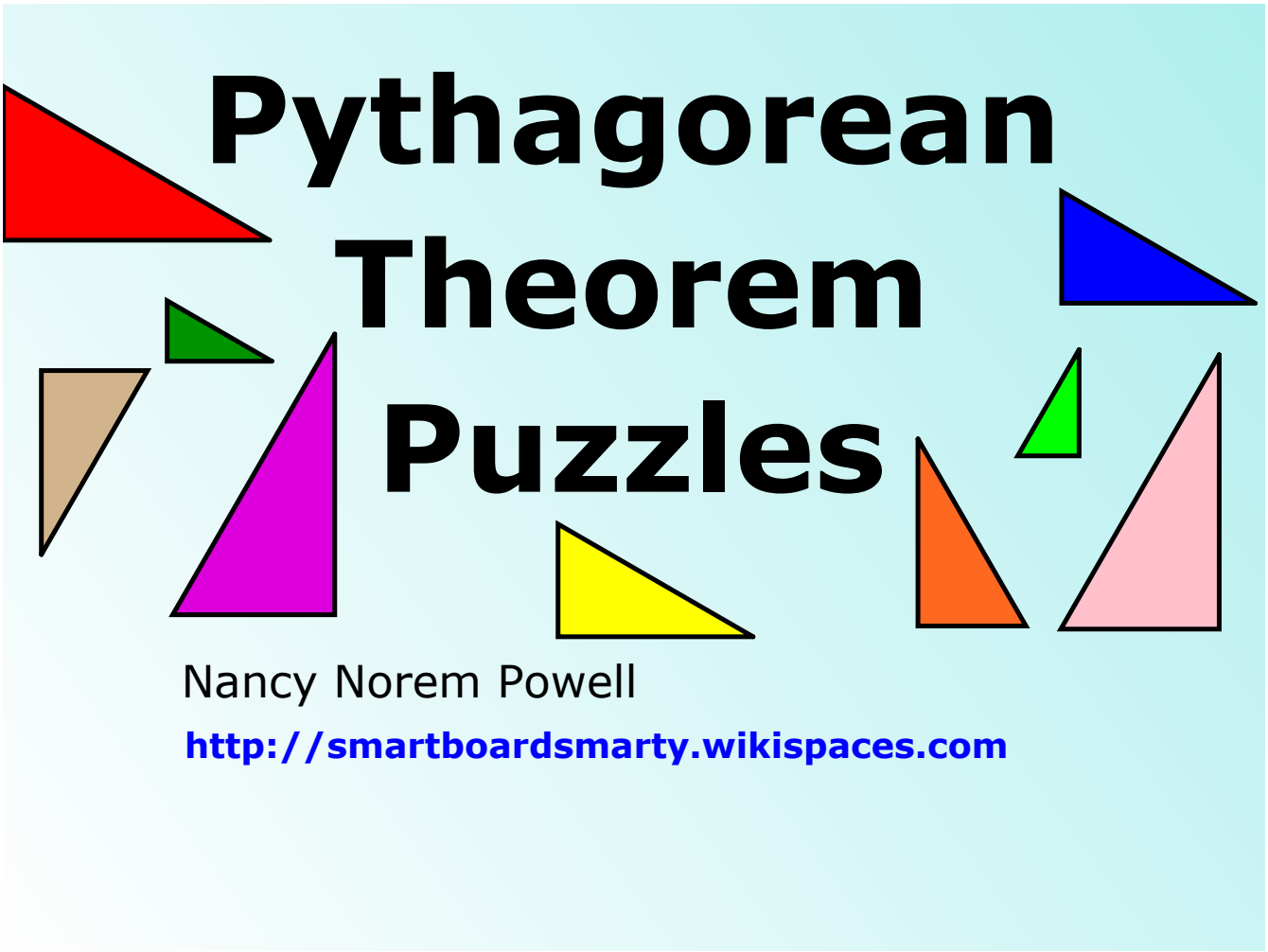
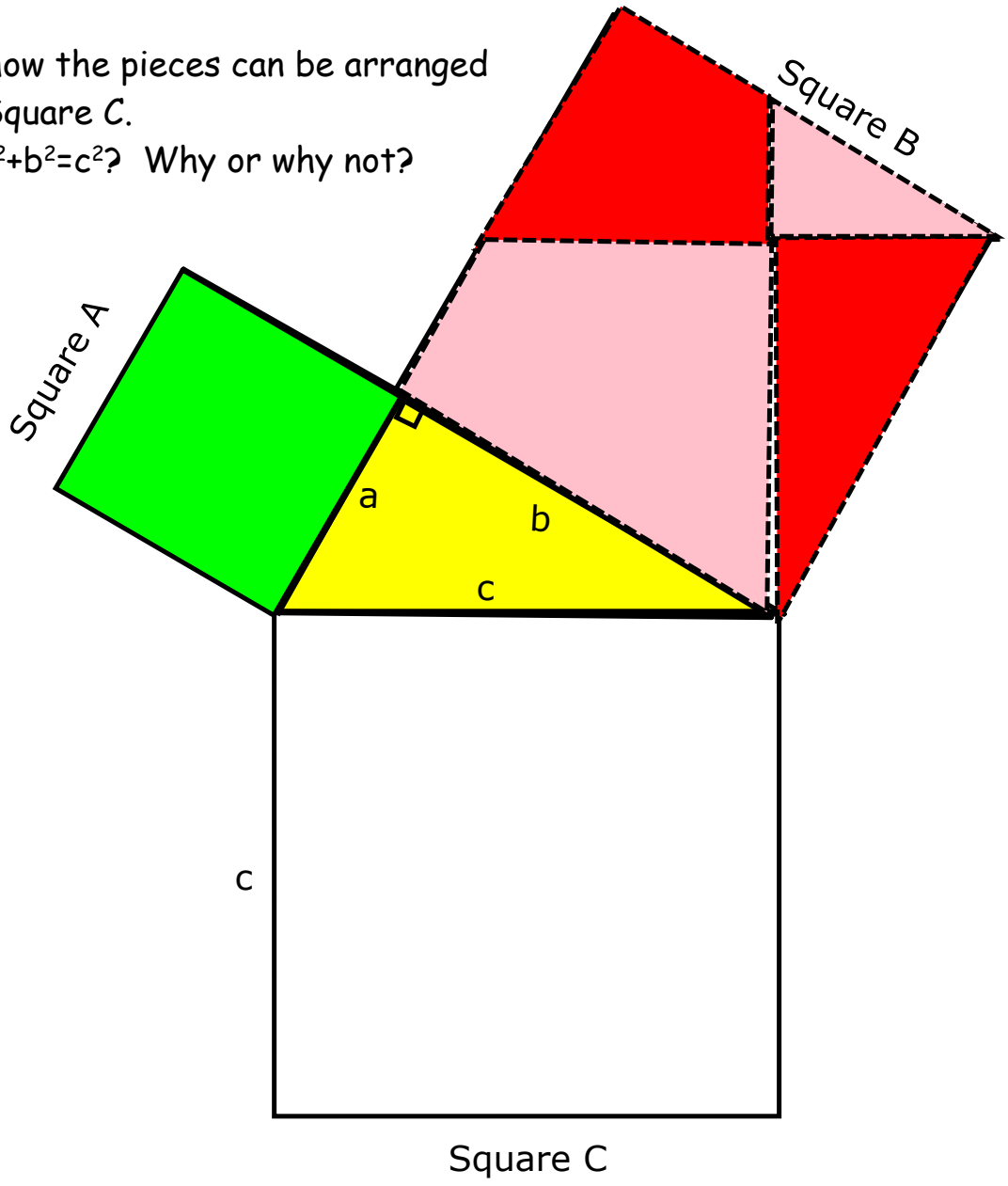

Pythagorean
Theorem
Puzzles
Nancy Norem Powell
http://smartboardsmarty.wikispaces.com

May 19-8:38 PM

Pythagorean Puzzle #1

1. Cut out Square A and four pieces from Square B.
2. Show how the pieces can be arranged to cover Square C.
3. Does $a^2+b^2=c^2$? Why or why not?

one solution



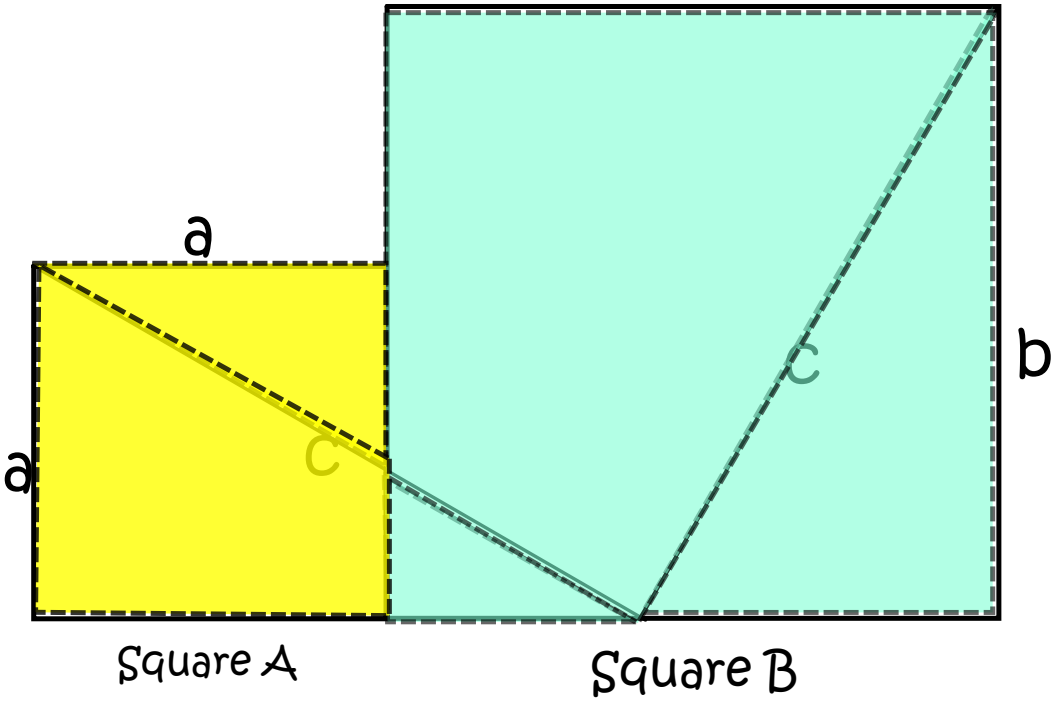
Pythagorean Puzzle #2

1. Cut out the five pieces from Squares A and B.
2. Show how the pieces can be arranged to cover square C.
3. Does $a^2+b^2=c^2$? Why or why not?

Square C

c

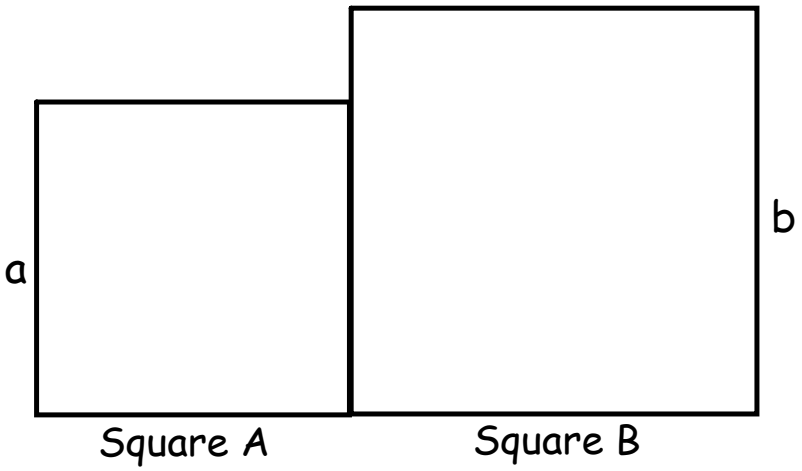
one solution

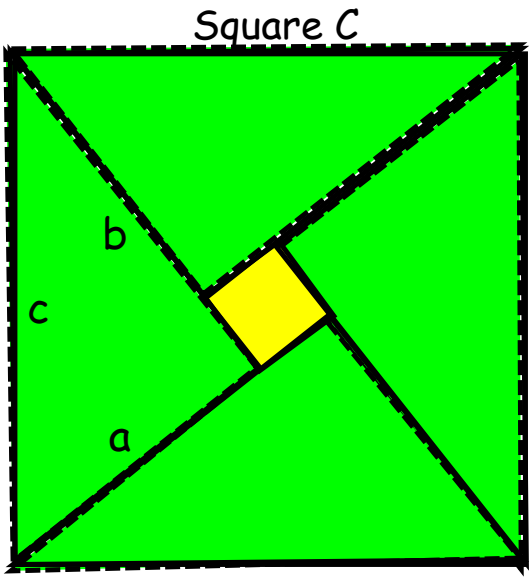


Pythagorean Puzzle #3

1. Cut out the pieces from Square C.
2. Show how the pieces can be arranged to cover Squares A and B.
3. Does $a^2+b^2=c^2$? Why or why not?

one solution

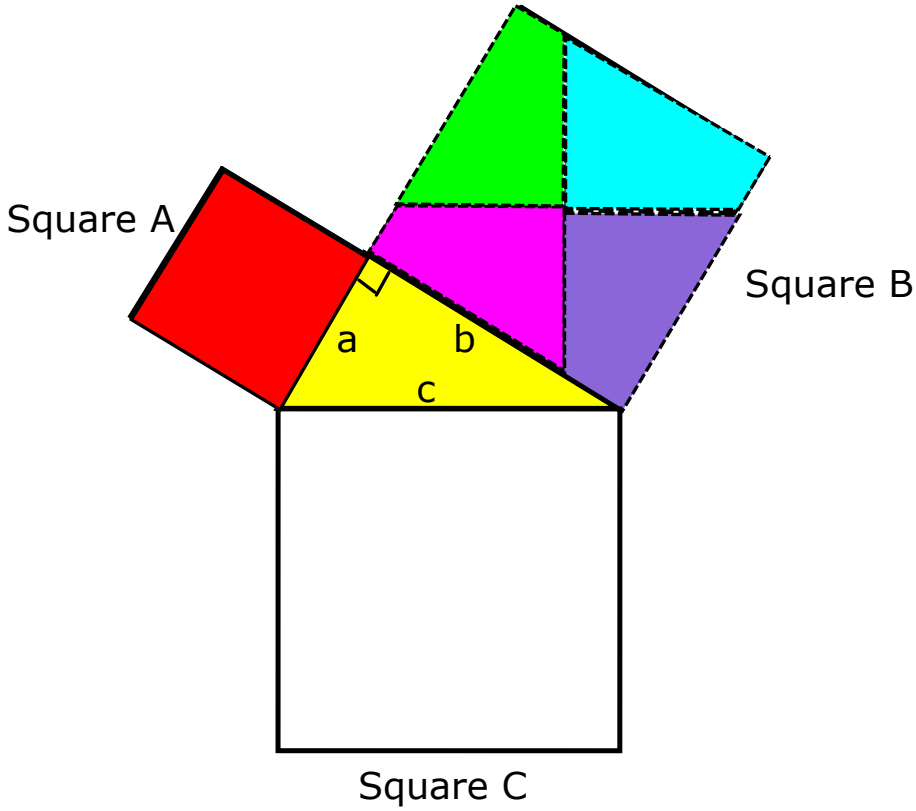


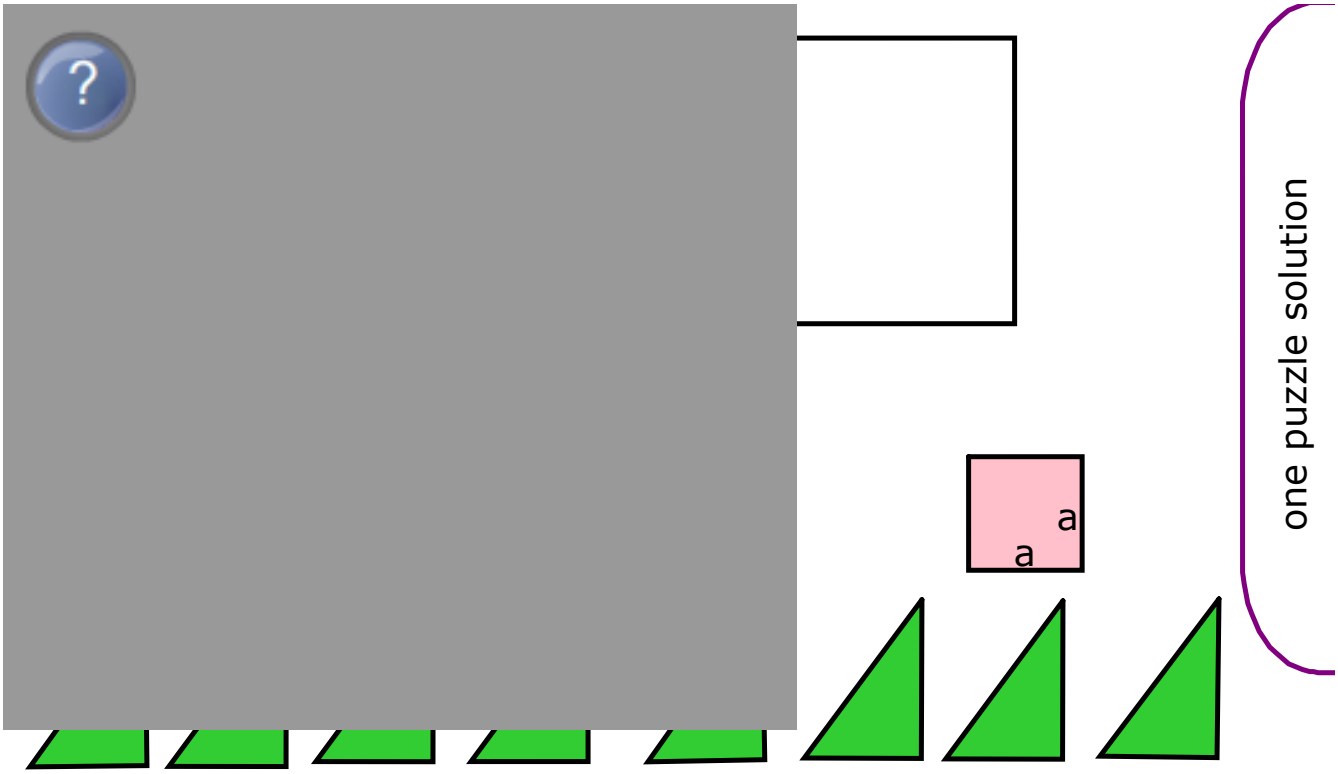


Pythagorean Puzzle #4

1. Cut out Square A and four pieces from Square B.
2. Show how the pieces can be arranged to cover Square C.
3. Does $a^2+b^2=c^2$? Why or why not?

one solution





Pythagorean Puzzle #5

1. Explore a green triangle. What can you discover about it?
2. What can you say about the two squares at the top of the page?
3. Given 8 triangles, a large square, medium square and small square, take these pieces and fill the two puzzle squares at the top.
4. Remove congruent pieces from each puzzle frame - 1 from the square on the left, then one from the right square until all of the congruent pieces have been removed. What can you say about the areas of the remaining pieces?

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